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REC #	ADDRESS / LOCATION PARCEL # / CSM	ISSUE/CONCERN
1	GENERAL PROPERTY	HYDROCARBON AFFECTED SOIL REMAINS IN-PLACE (SITE-WIDE IN A NON-UNIFORM MANNER) ACROSS THE SUBJECT PROPERTY EXTENDING TO DEPTHS OF 0 TO 11 FT BGS. THIS CONDITION ALSO REPRESENTS A VAPOR ENCRUSTMENT CONDITION ON THE SUBJECT PROPERTY. FREE-PRODUCT ALSO REMAINS IN-PLACE IN SELECT AREAS (BLDG 412, BLDG 924 AND LIKELY BLDG 920) ON THE SUBJECT PROPERTY.
2	GENERAL PROPERTY	DISCREPANCIES EXIST BETWEEN THE NUMBER OF USTS REGISTERED AND/OR PERMITTED AND THE NUMBER OF USTS IDENTIFIED AND SUBJECTED TO U.S. EPA TIME-CRITICAL REMOVAL ACTIONS. AS SUCH, UNREMOVED AND UNPERMITTED MAY REMAIN IN-PLACE THROUGHOUT THE SUBJECT PROPERTY. IT SHOULD BE NOTED THAT USTS SUBJECT TO U.S. EPA TIME-CRITICAL ACTIONS WERE VACATED OF PRODUCT, DECONTAMINATED, BACKFILLED, AND ABANDON IN-PLACE.
3	GENERAL PROPERTY	PRESENCE OF FORMER HEAVY INDUSTRIAL OPERATIONS FROM ABOUT 1893 THROUGH THE MID 1990S WITH THE STORAGE, USE AND MANAGEMENT OF PETROLEUM PRODUCTS AND HAZARDOUS SUBSTANCES. VARIOUS MANUFACTURING PROCESS LINES AND FUNCTIONAL AREAS LIKELY DISCHARGED TO FLOOR DRAINS, SUMPS, BELOW-GRADE COLLECTION AND/OR RECIRCULATION SYSTEMS. AN EVALUATION OF THE INTEGRITY OF THE COLLECTION SYSTEMS, CONCRETE CONTAINMENT AND SEWAGE PIPELINE SYSTEM IS BEYOND THE SCOPE OF THIS ASSESSMENT. U.S. EPA TIME-CRITICAL ACTIONS INCLUDED THE PRESSURE WASHING, DEGREASING, DECONTAMINATING AND DETERTERING OF NUMEROUS, BUT POTENTIALLY NOT ALL, BELOW-GRADE FEATURES AND COLLECTION SYSTEMS. THE UNKNOWN DISTRIBUTION LAYOUT, AGE AND UNKNOWN INTEGRITY OF THE BELOW-GRADE FEATURES AND COLLECTION SYSTEMS IS A CONDITION FOR WHICH SHAW CANNOT ELIMINATE THE POTENTIAL FOR RELEASE TO HAVE IMPACTED THE SUBJECT PROPERTY.
4	GENERAL PROPERTY	BASED ON THE URBAN SETTING OF THE SUBJECT PROPERTY, FORMER DEVELOPMENT, DEMOLITION, AND PLACEMENT OF FILL ON THE SUBJECT PROPERTY, ALONG WITH SHAW'S EXPERIENCE WITH SIMILAR SITES IN THE REGION, A POTENTIAL EXISTS FOR THE URBAN SOIL/FILL TO CONTAIN POLYNUCLEAR AROMATIC HYDROCARBONS, TOTAL LEAD AND ARSENIC CONSTITUENT CONCENTRATIONS AT LEVELS ABOVE REGULATORY INGESTION EXPOSURE ROUTE STANDARDS.
5	BLDG 1014	RESIDUAL PCB-CONTAMINATED CONCRETE AT CONCENTRATIONS WHICH ARE CLASSIFIED AS TSCA 'RESTRICTED AREA'. REMAINS IN-PLACE THROUGHOUT BLDG 1014 AND IS ENCAPSULATED BENEATH GREY EPOXY PAINT. THIS CONDITION MEETS THE CRITERIA OF A HREC. HOWEVER, CONSIDERING THE CONTEMPLATION OF FUTURE REDEVELOPMENT AND THE UNKNOWN REDEVELOPMENT PLAN, SHAW ELEVATES THIS TO A REC.
6	BLDG 1014	RESIDUAL PCB-CONTAMINATED SOIL ABOVE ILLINOIS TACO TIER 1 COMMERCIAL/INDUSTRIAL INGESTION REMEDIAL OBJECTIVE REMAINS IN-PLACE (WESTON 2007, B168) BENEATH THE FORMER MACHINE PAD (NORTHEAST AREA) AND BENEATH MOST OF BLDG 1014. THE EXISTING CONCRETE FLOOR SLAB HAS BECOME AN 'ENGINEERING BARRIER' RELATIVE TO THE RESIDUAL PCB-CONTAMINATED SOIL WHICH REMAINS IN-PLACE.
7	BLDG 1014	LEAD CONTAMINATED SOIL ABOVE ILLINOIS TACO TIER 1 COMMERCIAL/INDUSTRIAL INGESTION REMEDIAL OBJECTIVE REMAINS IN PLACE (WESTON 2007, B168) EXTENDING TO DEPTHS OF 1 TO 6 FT.
8	BLDG 112	RESIDUAL PCB-CONTAMINATED CONCRETE AT CONCENTRATIONS WHICH ARE SUBJECT TO TSCA REGULATIONS (FORMER TRANSFORMER SUBSTATION 13, BLDG 112) REMAINS IN-PLACE AND IS ENCAPSULATED BENEATH GREY EPOXY PAINT. THIS CONDITION MEETS THE CRITERIA OF A HREC. HOWEVER, CONSIDERING THE CONTEMPLATION OF FUTURE REDEVELOPMENT AND THE UNKNOWN REDEVELOPMENT PLAN, SHAW ELEVATES THIS TO A REC.
9	BLDG 1012	RESIDUAL PCB-CONTAMINATED CONCRETE AT CONCENTRATIONS WHICH ARE SUBJECT TO TSCA REGULATIONS (FORMER TRANSFORMER SUBSTATION 12, BLDG 1012) REMAINS IN-PLACE AND IS ENCAPSULATED BENEATH GREY EPOXY PAINT. THIS CONDITION MEETS THE CRITERIA OF A HREC. HOWEVER, CONSIDERING THE CONTEMPLATION OF FUTURE REDEVELOPMENT AND THE UNKNOWN REDEVELOPMENT PLAN, SHAW ELEVATES THIS TO A REC.
10	BLDG 1012	THE 1897 - 1911 SANBORN FIRE INSURANCE MAPS ILLUSTRATE THE PRESENCE OF AN 80,000-GALLON CISTERN 'FILLED WITH CITY WATER' IN THE EAST-CENTRAL AREA OF BLDG 1012. NO SPECIFIC OR DIRECT REFERENCE TO THIS CISTERN 'PIT' IN THE DESIGNATED BUILDING AREA) RELATIVE TO THE IDENTIFICATION, ASSESSMENT (PRESENCE/ABSENCE OF LIQUID OR PRODUCT), AND COMPLETION OF U.S. EPA TIME-CRITICAL REMOVAL OR DECONTAMINATION ACTIONS WAS AVAILABLE.
11	BLDG 1013	THE 1950 - 2004 SANBORN FIRE INSURANCE MAPS ILLUSTRATE THE PRESENCE OF A 'VITREOUS ENAMELING' AREA AND OTHER REPORTS REFERENCE SPRAY BOTH OPERATIONS IN BLDG 1013. BASED ON SHAW'S EXPERIENCE WITH THESE OPERATIONAL AREAS HAZARDOUS SUBSTANCES (SOLVENTS WITH VOCs, CVOCs) ARE TYPICALLY USED. THERE IS A LACK OF QUALITATIVE SOIL AND/OR GROUNDWATER DATA AVAILABLE WITHIN THIS GENERAL AREA (BLDG 1013) WITH RESPECT TO VOC, CVOC CONSTITUENTS.
12	BLDG 1013	THE 1911 SANBORN FIRE INSURANCE MAP ILLUSTRATES THE PRESENCE OF AN OIL HOUSE IN THE SOUTH-CENTRAL END OF BLDG 1013. THERE IS A LACK OF QUALITATIVE SOIL AND/OR GROUNDWATER DATA AVAILABLE WITHIN THIS GENERAL AREA (BLDG 1013) WITH RESPECT TO PETROLEUM HYDROCARBON CONSTITUENTS.
13	BLDG 1017	THE 1911 SANBORN FIRE INSURANCE MAP ILLUSTRATES THE PRESENCE OF ONE GAS OIL UST LOCATED BENEATH BLDG 1017 (NORTH-CENTRAL AREA). IT IS UNKNOWN IF THIS UST REMAINS IN-PLACE. THERE IS A LACK OF QUALITATIVE SOIL AND/OR GROUNDWATER DATA AVAILABLE WITHIN THIS GENERAL AREA (BLDG 1017) WITH RESPECT TO THIS UST.
14	BLDG 412	THE 1939 - 2004 SANBORN FIRE INSURANCE MAPS ILLUSTRATE THE PRESENCE OF AN 'ENAMELING' AREA AND OTHER REPORTS REFERENCES SPRAY BOOTH OPERATIONS IN BLDG 412. BASED ON SHAW'S EXPERIENCE WITH THESE OPERATIONAL AREAS HAZARDOUS SUBSTANCES (SOLVENTS WITH VOCs, CVOCs) ARE TYPICALLY USED. THERE IS A LACK OF QUALITATIVE SOIL AND/OR GROUNDWATER DATA AVAILABLE WITHIN THIS GENERAL AREA (BLDG 412) WITH RESPECT TO VOC, CVOC CONSTITUENTS.
15	BLDG 412	THE WESTON FEBRUARY 2007 SITE-WIDE GEOPROBE INVESTIGATION IDENTIFIED THE PRESENCE OF FREE PRODUCT IN THE NORTHERN PORTION OF BLDG 412 (SOIL BORINGS B130, B131, AND B169). UTILIZING AVAILABLE BORING LOGS (BORING LOGS WERE NOT AVAILABLE FOR WESTON 2006 NEARBY BORINGS - B16 AND B19) THE FREE PRODUCT PLUME MAY EXTEND IN A NORTHWESTERLY DIRECTION UP TO POTENTIAL DISTANCES OF 150 TO 250 FT (THE NEXT CLOSEST AND AVAILABLE BORING LOG RECORD). THE QUALITATIVE NATURE, HORIZONTAL AND VERTICAL EXTENT OF THE FREE PRODUCT PLUME NEAR BLDG 412 HAS NOT YET BEEN FULLY DEFINED.
16	BLDG 513	THE 1975 - 2004 SANBORN FIRE INSURANCE MAPS ILLUSTRATE THE PRESENCE OF A 'DIPPING' AREA IN THE NORTH CENTRAL PORTION OF BLDG 513. BASED ON SHAW'S EXPERIENCE WITH THESE OPERATIONAL AREAS PETROLEUM AND HAZARDOUS SUBSTANCES (QUENCH OILS, SOLVENTS WITH VOCs, CVOCs) ARE TYPICALLY USED. THERE IS A LACK OF QUALITATIVE SOIL AND/OR GROUNDWATER DATA AVAILABLE WITHIN THIS GENERAL AREA (BLDG 513) WITH RESPECT TO VOC, CVOC CONSTITUENTS.
17	BLDG 512	RESIDUAL PCB-CONTAMINATED CONCRETE AT CONCENTRATIONS WHICH SUBJECT TO TSCA REGULATIONS (FORMER TRANSFORMER SUBSTATION 9, BLDG 512) REMAINS IN-PLACE AND IS ENCAPSULATED BENEATH GREY EPOXY PAINT. THIS CONDITION MEETS THE CRITERIA OF A HREC. HOWEVER, CONSIDERING THE CONTEMPLATION OF FUTURE REDEVELOPMENT AND THE UNKNOWN REDEVELOPMENT PLAN, SHAW ELEVATES THIS TO A REC.
18	BLDG 511	RESIDUAL PCB-CONTAMINATED CONCRETE AT CONCENTRATIONS WHICH ARE CLASSIFIED AS TSCA 'RESTRICTED AREA' (FORMER TRANSFORMER SUBSTATION 10, BLDG 511) REMAINS IN-PLACE. AT THE TIME OF THE SHAW NOVEMBER 2011 SITE RECONNAISSANCE OIL STAINING WAS OBSERVED ON THREE EXISTING METAL BASE-PLATES (FORMER TRANSFORMER LOCATIONS) AND SURROUNDING CONCRETE. NO ENCAPSULATING GREY EPOXY PAINT WAS OBSERVED.
19	BLDG 511	RESIDUAL PCB-CONTAMINATED SOIL ABOVE ILLINOIS TACO TIER 1 COMMERCIAL/INDUSTRIAL INGESTION REMEDIAL OBJECTIVE REMAINS IN-PLACE (TETRA TECH 2004, SB-04) BENEATH BLDG 511. THE EXISTING CONCRETE FLOOR SLAB HAS BECOME AN 'ENGINEERING BARRIER' RELATIVE TO THE RESIDUAL PCB-CONTAMINATED SOIL.
20	BLDG 920	DURING THE WESTON INITIAL OVER-EXCAVATION AND SOIL REMOVAL ACTIVITIES ASSOCIATED WITH BLDG 920, FREE PRODUCT MIGRATED INTO THE SOUTHWESTERN CORNER OF THE EXCAVATION, ENTERING FROM A WESTERLY DIRECTION (THE DIRECTION OF BLDG 914). A CLAY BERM WAS CONSTRUCTED TO MINIMIZE MIGRATION OF FREE PRODUCT INTO EXCAVATION. UTILIZING AVAILABLE BORING LOGS (BORING LOGS WERE NOT AVAILABLE FOR WESTON 2006 NEARBY BORINGS - B-1 TO B-5 AND B-218 TO B-19) A FREE PRODUCT PLUME MAY REMAIN IN-PLACE AND EXTEND IN A WEST AND NORTHWESTERLY DIRECTION UP TO POTENTIAL DISTANCES OF 125 FT (THE NEXT CLOSEST AND AVAILABLE BORING LOG RECORD). IT SHOULD BE NOTED THAT TWO RELATIVELY LARGE FUEL OIL USTS WERE ILLUSTRATED ON THE 1911 SANBORN FIRE INSURANCE MAP, NORTHWEST OF BLDG 920. A SECONDARY OVER-EXCAVATION AND SOIL REMOVAL ACTIVITY WAS COMPLETED; THE DIMENSIONS AND EXTENTS WERE NOT SPECIFIED. THERE IS A LACK OF QUALITATIVE SOIL AND/OR GROUNDWATER DATA IN THIS GENERAL AREA VALIDATING AND SUBSTANTIATING THE APPROPRIATE REMOVAL OF CONTAMINATED SOIL. FURTHERMORE, THE QUALITATIVE NATURE, HORIZONTAL AND VERTICAL EXTENT OF THE LIKELY REMAINING FREE PRODUCT PLUME NEAR BLDG 920 HAS NOT YET BEEN FULLY DEFINED.
21	BLDG 714	RESIDUAL PCB-CONTAMINATED CONCRETE AT CONCENTRATIONS WHICH ARE SUBJECT TO TSCA REGULATIONS (FORMER TRANSFORMER SUBSTATION 6, BLDG 714) REMAINS IN-PLACE.
22	BLDG 715 EXTERIOR TO NORTH	THE 1939 - 2004 SANBORN FIRE INSURANCE MAPS ILLUSTRATE THE PRESENCE OF A 'WOODEN DUST TANK' SITUATED NORTH OF BLDG 715. THE COMPOSITION OF THE DUST (METAL, WOOD OR ASH) STORED WITHIN THIS TANK IS UNKNOWN. BASED ON SHAW'S EXPERIENCE WITH THESE OPERATIONAL AREAS PETROLEUM AND/OR HAZARDOUS SUBSTANCES (LIQUID/OIL/MIXTURE MISTS AS A DUST CONTROL MECHANISM, METAL DUST PARTICLES CONTAMINATED WITH CUTTING OIL OR DIPPING CHEMICALS APPLIED PRIOR TO MACHINING), CAN BE ASSOCIATED WITH THIS DUST COLLECTION AREA. THERE IS A LACK OF QUALITATIVE SOIL AND/OR GROUNDWATER DATA AVAILABLE WITHIN THIS GENERAL AREA (NORTH OF BLDG 715) WITH RESPECT TO PCB, VOC, AND CVOC CONSTITUENTS.
23	BLDG 615	RESIDUAL PCB-CONTAMINATED CONCRETE AT CONCENTRATIONS WHICH ARE CLASSIFIED AS TSCA 'UNRESTRICTED AREA' (FORMER TRANSFORMER SUBSTATION 7, BLDG 615) REMAINS IN-PLACE.
24	BLDG 811	RESIDUAL PCB-CONTAMINATED SOIL ABOVE ILLINOIS TACO TIER 1 COMMERCIAL/INDUSTRIAL INGESTION REMEDIAL OBJECTIVE REMAINS IN PLACE (TETRA TECH 2004, SB-02/TMW-1) IMMEDIATELY WEST OF BLDG 811.
25	BLDG 913	THE 1939 - 2004 SANBORN FIRE INSURANCE MAPS ILLUSTRATE THE PRESENCE OF 'PICKLING' OPERATIONS IN BLDG 913. BASED ON SHAW'S EXPERIENCE WITH THESE OPERATIONAL AREAS HAZARDOUS SUBSTANCES (HYDROCHLORIC ACID, SULFURIC ACID, AND SOLVENTS WITH VOCs/CVOCs) ARE TYPICALLY USED. THERE IS A LACK OF QUALITATIVE SOIL AND/OR GROUNDWATER DATA AVAILABLE WITHIN THIS GENERAL AREA (BLDG 913) WITH RESPECT TO ACIDIC CONDITIONS, VOC, CVOC CONSTITUENTS; SAMPLES COLLECTED IN THE PAST HAVE BEEN ANALYZED FOR METALS.
26	BLDG 916	RESIDUAL PCB-CONTAMINATED CONCRETE AT CONCENTRATIONS WHICH ARE SUBJECT TO TSCA REGULATIONS (FORMER TRANSFORMER SUBSTATION 5, BLDG 916) REMAINS IN-PLACE.
27	BLDG 914 EXTERIOR TO EAST	THE 1911 SANBORN FIRE INSURANCE MAP ILLUSTRATES THE PRESENCE OF TWO LARGE FUEL OIL USTS LOCATED EAST OF BLDG 914. IT IS UNKNOWN IF THESE USTS REMAIN IN-PLACE. THERE IS A LACK OF QUALITATIVE SOIL AND/OR GROUNDWATER DATA AVAILABLE WITHIN THIS GENERAL AREA (EAST OF BLDG 914) WITH RESPECT TO THIS UST AREA.

LEGEND

APPROX. SUBJECT PROPERTY BOUNDARY

1

APPROXIMATE RECOGNIZED ENVIRONMENTAL CONDITION (REC) LOCATION

E

SOIL EXCAVATION AREA

APPROXIMATE SCALE:



GENERALIZED GROUNDWATER FLOW DIRECTION



CLIENT

CHICAGO DOE

LOCATION

FORMER INGERSOLL PRODUCTS
1000 West 120th Street
Chicago, Illinois 60643

Shaw Environmental, Inc.

111 W. Pleasant St. Suite 105
Milwaukee, Wisconsin 53212-3939
(414) 291-2350

TITLE

SUMMARY OF
PHASE I ESA FINDINGS -
EASTERN PORTION

DRWN
JRD

CHKD
TJH

REVD
BY
REVISION
DATE

-
TJH

APPRVD
BY

-
DATE

PROJECT
NO. 144607
02/08/2012

FIGURE NO.
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